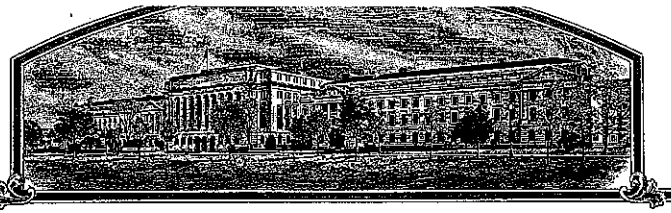
No. 9700070



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Green Genes, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

ALFALFA

'Runner II'

In Testimony Whereof, *I have hereunto set my hand and caused the seal of the* Plant Variety Protection Office *to be affixed at the City of Washington, D.C. this thirtieth day of January, in the year of our Lord two thousand one.*

PLANT VARIETY PROTECTION OFFICE · U.S. DEPARTMENT OF AGRICULTURE

Attest:

Acting Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.* FORM APPROVED - OMB NO. 0581-005

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a).

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*
Green Genes, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER
94GG

3. VARIETY NAME
Runner II

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*
~~37443 1st Ave. Ct.~~
~~Dennison, MN 55018~~
401 Second Street East
Wanamingo MN 55983
per phone conversation

5. TELEPHONE *(include area code)*
~~(507) 645-5821~~
507-824-3003

6. FAX *(include area code)*
~~(507) 645-5821~~
507-824-3003

FOR OFFICIAL USE ONLY

PVPO NUMBER: 9700071

FILING DATE: 12/27/96

FEE RECEIVED
FILING AND EXAMINATION FEE: $ 2,450.00
DATE: 12/27/96
CERTIFICATION FEE: $ 320.00
DATE: 1/10/01

7. GENUS AND SPECIES NAME
Medicago Sativa

8. FAMILY NAME *(Botanical)*
Leguminosae

9. CROP KIND NAME *(Common name)*
Alfalfa

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)* *(Common name)*
Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION
Minnesota

12. DATE OF INCORPORATION
12/07/87

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS
Glenn Page
Green Genes, Inc.
P.O. Box 123
Dennison, MN 55018
401 Second Street East
Wanamingo MN 55983

14. TELEPHONE *(include area code)*
507-824-3003
~~(507) 645-5821~~

15. FAX *(include area code)*
~~(507) 645-5821~~
507-824-3003

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. ☒ Exhibit A. Origin and Breeding History of the Variety
b. ☒ Exhibit B. Statement of Distinctness
c. ☒ Exhibit C. Objective Description of the Variety
d. ☒ Exhibit D. Additional Description of the Variety
e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership
f. ☒ Voucher Sample *(2,500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in a public repository)*
g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasurer of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? *(See Section 83(a) of the Plant Variety Protection Act)*
☐ YES *(If "yes," answer items 18 and 19 below)* ☒ NO *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?
☐ YES *(If "yes," give names of countries and dates)* ☒ NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is(are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*		SIGNATURE OF APPLICANT *(Owner(s))*	
Glenn Page			
NAME *(Please print or type)*		NAME *(Please print or type)*	
Glenn Page			
CAPACITY OR TITLE	DATE	CAPACITY OR TITLE	DATE
President	12/27/96		

EXHIBIT A - **REVISED**

ORIGIN AND BREEDING HISTORY OF THE VARIETY

Runner II

Runner II is an eight clone multifoliate, creeping, synthetic variety. Crosses of selected strong creeping plants from Spredor 2 were made with experimental F1 selections. **These F1 selections resulted from field crosses (open pollination) between the variety Multileaf and Green Genes, Inc. experimental breeding lines in a field nursery. The experimental breeding lines trace back to Apollo, DK120, Elevation, Impact, Oneida, Riley and Wrangler**. The first two cycles of selection were primarily for the creeping rooted habit and high seed yield potential. In later cycles, primary selection criteria also included Phytophthora root rot and the multifoliate character.

Breeders seed was produced under field isolation near Adrian, Oregon.

Runner II is a uniform and stable alfalfa variety with no variants appearing during multiplication. Multiplication procedure will insure that seed being sold as Runner II will not be shifted in characteristics beyond presently acceptable limits for alfalfa varieties.

EXHIBIT B

STATEMENT OF DISTINCTNESS

Runner II is most similar to Runner, but differs in having a multifoliate expression index (MFI) of 3.96 while Runner is a trifoliate variety.

FORM APPROVED: OMB NO. 0581-0055

EXHIBIT C
(Alfalfa)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
~~COMMODITIES SCIENTIFIC SUPPORT DIVISION~~
BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY
ALFALFA *(Medicago sativa* sensu Gunn et al.*)*

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Green Genes, Inc.	94GG	Runner II

ADDRESS *(Street and No., or R.F.D. No., City, State, and Zip Code)*
37443 1st Ave. Ct.
Dennison, MN 55018

FOR OFFICIAL USE ONLY
PVPO NUMBER
9700070

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place numbers in the boxes to designate the expressions which are characteristic of the commerical generations of the application variety. Data for quantitative plant characters should be based on a minimum of 100 plants. Include leading zeros when necessary (e.g., [0][8][9]) for quantitative data. Comparative data should be determined from varieties entered in the same trial. Plant color may be precisely designated by using any recognized color chart, e.g., The Munsell Plant Tissue Color Charts.

1. WINTERHARDINESS:

[ ] CLASS:

1 = Very Non-Winterhardy (CUF 101)
2 = Non-Winterhardy (Moapa 69)
3 = Intermediately Non-Winterhardy (Mesilla)
4 = Semi-Winterhardy (Lahontan)
5 = (Du Puits)
6 = Moderately Winterhardy (Saranac)
7 = (Ranger)
8 = Winterhardy (Vernal)
9 = Extremely Winterhardy (Norseman)

TEST LOCATION: _____

2. FALL DORMANCY:

FALL DORMANCY (DETERMINED FROM SPACED PLANTINGS)

TESTING INSTITUTION AND LOCATION	DATE OF LAST CUT	DATE REGROWTH SCORED	REGROWTH SCORE OR AVERAGE HEIGHT				LSD .05
			APPLICATION VARIETY	CHECK VARIETIES*			
				Norseman	Vernal	Ranger	
Green Genes, Inc. Kenyon, MN	9/8/95	10/13/95	6.0	3.9	5.6	6.9	.9

* CUF 101, Moapa 69, Mesilla, Lahontan, Du Puits, Saranac, Ranger, Vernal, or Norseman as appropriate.

Specify scoring system used: Measured in inches

[7] Fall Growth Habit (Determined from Fall Dormancy Trials)

1 = Erect (CUF 101)
3 = Semierect (Mesilla)
5 = Intermediate (Saranac)
7 = Semidecumbent (Vernal)
9 = Decumbent (Norseman)

3. RECOVERY AFTER FIRST SPRING CUT (In Southwest, first cut after March 21):

[7]

1 = Very Fast (CUF 101)
3 = Fast (Saranac)
5 = Intermediate (Ranger)
7 = Slow (Vernal)
9 = Very Slow (Norseman)

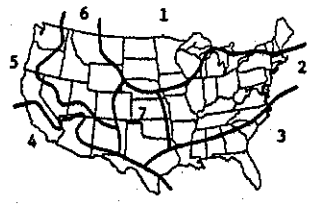
TEST LOCATION: Kenyon, MN

4. AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):

[1] Primary Area of Adaptation

[6] [2] Other Areas of Adaptation

1 = North Central
2 = East Central
3 = Southeast
4 = Southwest
5 = Moderately Winterhardy Intermountain
6 = Winterhardy Intermountain
7 = Great Plains
8 = Other *(Specify)* _____



5. FLOWERING DATE (When 10% of plants possess open flowers at time of first spring cut):

[ ][ ] Days Earlier Than . . . . . [ ]
Same As . . . . . [ ]
[ ][ ] Days Later Than . . . . . [ ]

1 = CUF 101
2 = Mesilla
3 = Saranac
4 = Vernal
5 = Norseman

TEST LOCATION: _____

4

6. PLANT COLOR (Determined from healthy regrowth 3 weeks after first spring cut, controlling leafhoppers if necessary):

[ ] 1 = Very Dark Green (524) 2 = Dark Green (Vernal) 3 = Light Green (Ranger)

COLOR CHART VALUE (Specify chart used; _____):

APPLICATION VARIETY: _____

VERNAL: _____

TEST LOCATION: _____

7. CROWN TYPE (Determined from spaced plantings):

[4] Noncreeping Types: 1 = Broad (Vernal) 2 = Intermediate (Saranac) 3 = Narrow (CUF 101)

Creeping Types: 4 = Creeping Rooted (Rangelander) 5 = Rhizomatous (Rhizoma)

8. FLOWER COLOR (Determine frequency of plants for each color class as defined by USDA Agricultural Handbook No. 424 (Barnes 1972), allowing all plants in plot to flower):

90	% Purple and Violet (Subclasses 1.1 to 1.4)	10	% Blue (Subclasses 2.3 and 2.4)
TRACE	% Variegated Other Than Blue (Subclasses 2.1, 2.2, 2.5 to 2.9)	TRACE	% Yellow (Subclasses 4.1 to 4.4)
TRACE	% Cream (Class 3)	TRACE	% White (Class 5)

TEST LOCATION: Kenyon, MN

9. POD SHAPE (Determine frequency of plants with the following pod shapes produced on well cross-pollinated racemes):

[ ] % Tightly Coiled (One or more coils, center more or less closed) [ ] % Loosely Coiled (One or more coils, center conspicuously open)

[ ] % Sickle (Less than 1 coil) TEST LOCATION: _____

10. PEST RESISTANCE: Provide in the appropriate column, trial data for application variety, and resistant (R) and susceptible (S) check varieties, synthetic generation tested, average severity index scores (ASI), least significant difference statistics (LSD .05), the institution in charge of test, year, and location of test, and whether test is a field or laboratory evaluation. Describe scoring system, and any test procedure which differs from standard methods proposed by Elgin (1982). Trial data from other test years or locations should be presented whenever available on a separate document as Exhibit D.
Seeds of the check varieties and germplasm lines listed below can be obtained from the USDA Field Crops Laboratory, Bldg. 001, Rm. 335, BARC-West, Beltsville, MD 20705. Although comparisons with check varieties listed below are preferred, comparisons with any appropriate check variety recommended by Elgin (1982) may be presented.

A. DISEASE RESISTANCE: DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	% Resistant ~~ASI~~ LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Anthracnose, Race 1 *(Colletotrichum trifolii)*	Application	2	2			7.4	Crop Characteristics, Inc
	Arc (R)		65				1995
	Saranac (S)		1				Northfield, MN Lab
	SCORING SYSTEM:						
Anthracnose, Race 2 *(Collectotrichum trifolii)*	Application						
	Saranac AR (R)						
	Arc (S)						
	SCORING SYSTEM:						
Bacterial Wilt *(Corynebacterium insidiosum)*	Application	2	37	103	2.4	0.47	Crop Characteristics, Inc.
	Vernal (R)		42	311	2.6		1995
	Narragansett (S)		2	340	4.0		Northfield, MN Field
	SCORING SYSTEM: 0-5 Scale - 5=Dead; Plants rated 0 or 1 are considered resistant						
Common Leafspot *(Pseudopeziza medicaginis)*	Application						
	MSA-CW3AN3 (R)						
	Ranger (S)						
	SCORING SYSTEM:						

10. A. PEST RESISTANCE (Continued):

DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Downy Mildew *(Peronospora trifoliorum)*	Application						
Isolate, if known:	Saranac (R)						
	Kanza (S)						
	SCORING SYSTEM:						
Fusarium Wilt *(Fusarium oxysporum f. medicaginis)*	Application	2	32	88	3.2	0.51	Crop Characteristics Inc.
	Moapa 69 (R)		71	132	1.6		1995 Northfield, MN
	Narragansett ~~HX~~ (S)		20	125	4.1		Field
	SCORING SYSTEM: 0-5 Scale; 5=Dead; Plants rated 0 or 1 are considered resistant						
Phytophthora Root Rot *(Phytophthora megasperma f. medicaginis)*	Application	2	16	152	4.0	0.52	Crop Characteristics Inc.
	Agate (R)		43	160	3.4		1995 Northfield, MN
	Saranac (S)		10	159	4.3		Lab
	SCORING SYSTEM: 1-6 Scale; 6=Dead; Plants rated 1 & 2 are considered resistant						
Verticillium Wilt *(Verticillium alboatrum)*	Application	2	3	219	4.0	0.23	Crop Characteristics Inc.
	Vertus (R)		40	215	2.6		1996 Northfield, MN
	Saranac (S)		2	210	4.1		Lab
	SCORING SYSTEM: 1-5 Scale; 5=Dead; Plants rated 1 or 2 are considered resistant						
Other *(Specify)* Aphanomyces Root Rot, Race 1	Application	2	4	176	4.0	0.21	Crop Characteristics Inc.
	(R)		53	176	2.7		1996 Northfield, MN
	(S)		1	176	4.4		Lab
	SCORING SYSTEM: 1-5 Scale; 5=Dead; Plants rated 1 or 2 are considered resistant						
Other *(Specify)*	Application						
	(R)						
	(S)						
	SCORING SYSTEM:						

B. INSECT RESISTANCE:

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT DEFOLIATION	DEFOLIATION IN PERCENT OF RESISTANT CHECK	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Alfalfa Weevil *(Hypera postica)*	Application						
	Arc (R)			100			
	Saranac (S)						
	SCORING SYSTEM:						

10. B. INSECT RESISTANCE (Continued): 9700070

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT SEEDLING SURVIVAL	NUMBER OF SEEDLINGS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Blue Alfalfa Aphid *(Acyrthosiphon kondoi)*	Application						
	CUF 101 (R)						
	PA-1 (S)						
	SCORING SYSTEM:						
Pea Aphid *(Acyrthosiphon pisum)*	Application	2	2	177	4.4	0.19	Crop Characteristics, Inc.
	~~Kanza (R)~~ Baker (R)		45	178	3.2		1996 Northfield, MN Lab
	~~Ranger (S)~~ Vernal (S)		7	180	4.2		
	SCORING SYSTEM: 1-5 Scale; 5=Dead; Plants rated 1, 2, or 3 are considered resistant						
Spotted Alfalfa Aphid *(Therioaphis maculata)* *Biotype, if known:*	Application						
	Kanza (R)						
	Ranger (S)						
	SCORING SYSTEM:						

INSECT	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Potato Leafhopper Yellowing *(Empoasca fabae)*	Application						
	MSA-CW3An3 (R)						
	Ranger (S)						
	SCORING SYSTEM:						
Other *(Specify)*	Application						
	(R)						
	(S)						
	SCORING SYSTEM:						

C. NEMATODE RESISTANCE: NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Northern Root Knot *(Meloidogyne hapla)*	Application						
	Nev. Syn. XX (R)						
	Lahontan (S)						
	SCORING SYSTEM:						

10. C. NEMATODE RESISTANCE (Continued):

9700070

NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Southern Root Knot *(Meloidogyne incognita)*	Application						
	Moapa 69 (R)						
	Lahontan (S)						
	SCORING SYSTEM:						
Stem Nematode *(Ditylenchus dipsaci)*	Application						
	Lahontan (R)						
	Ranger (S)						
	SCORING SYSTEM:						
Other *(Specify)*	Application						
	(R)						
	(S)						
	SCORING SYSTEM:						

11. INDICATE THE VARIETY THAT MOST CLOSELY RESEMBLES THE APPLICATION VARIETY FOR EACH OF THE FOLLOWING CHARACTERS:

CHARACTER	VARIETY	CHARACTER	VARIETY
Winterhardiness	Vernal	Plant Color	Runner
Recovery After 1st Cut	Vernal	Crown Type	Runner
Area of Adaptation	Vernal	Combined Disease Resistance	Runner
Flowering Date	Runner	Combined Insect Resistance	Runner

REFERENCES

Barnes, D.K. 1972. A System for Visually Classifying Alfalfa Flower Color. U.S. Dep. Agric. Handb. 424. 18 pp. (Note: Greenish cast of plate 6, A and B is an artifact of printing, actual colors a blend of yellow and white.)

Elgin, J.H., Jr., (ed.). 1982. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars. U.S. Dep. Agric. Tech. Bull. (In Press).

Gunn, C.R., W.H. Skrdla, and H.C. Spencer. 1978. Classification of Medicago sativa L. using legume characters and flower colors. U.S. Dep. Agric. Tech. Bull. 1574. 84 pp.

Munsell Color Co. 1977. Munsell Plant Tissue Color Charts. Munsell Color Co., Inc. Baltimore.

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

EXHIBIT D

ADDITIONAL DESCRIPTION OF THE VARIETY

Multifoliate Leaf Expression

Entry	MFI	% Multifoliate plants*	
Legend	1.69	63	Crop Character-istics, Inc. 1996
Multiking I	2.14	75	
Proof	3.14	83	
'Runner II' = 94GG (syn.2)	3.98	94	
Test Mean	2.74	78.9	Northfield Minnesota field
C.V. (%)	16.4	11.1	
LSD (.05)	0.72	14.0	

Planted in greenhouse, 3/18/96, Transplanted to field, 6/26/96
Evaluated 9/12/96, MFI (0-5, 0 = no multifoliate leaves)
* % plants with at least 2 stems, of a 3 stem sample, having at least one multifoliate leaf.

1993 Creeper Evaluation

Entry	% Creeping Plants	
Spredor 2	2	Crop Character-istics, Inc. 1993 Northfield, Minnesota field
Runner	10	
Runner II (syn.1)	23	
Travois	6	
Test Mean	6.6	
C.V (%)	80.0	
LSD (.05)	9.4	

First year data, Seeded 5/19/93, Evaluated 10/4/93

ADDENDUM TO
EXHIBIT D

Runner - Runner II MF Leaf Comparison

	Rep 1		Rep 2		Rep 3		Rep 4		
	Plants	Value	Plants	Value	Plants	Value	Plants	Value	**MEAN**
Runner									
All trifoliate = 1	79	79	69	69	86	86	70	70	
MF = 2		0	1	2		0	1	2	
MF = 3	1	3		0		0		0	
MF = 4		0		0		0		0	
MF = 5		0		0		0		0	
No. of Plants with MF Expression	1		1		0		1		0.8
Total Plants	80		70		86		71		76.8
% Expression	1.25%		1.43%		0.00%		1.41%		**1.02%**
MFI		1.03		1.01		1.00		1.01	**1.01**
Runner II									
All trifoliate = 1	45	45	21	21	26	26	27	27	
MF = 2	11	22	12	24	7	14	5	10	
MF = 3	17	51	18	54	15	45	16	48	
MF = 4	12	48	15	60	14	56	12	48	
MF = 5		0	1	5	1	5	9	45	
No. of Plants with MF Expression	40		46		37		42		41.3
Total Plants	85		67		63		69		71.0
% Expression	47.1%		68.7%		58.7%		60.9%		**58.8%**
MFI		1.95		2.45		2.32		2.58	**2.32**

Seeded in unheated greenhouse
at Kenyon, MN on March 29, 1999
Evaluated May 20, 1999
Most plants were in the 5 to 6 internode stage

1 = all trifoliate leaves
2 = 1 MF leaf/stem
3 = 2-3 MF leaves/stem
4 = 4-5 MF leaves/stem
5 = 6-7 MF leaves/stem

REPRODUCE LOCALLY. *Include form number and date on all reproductions.* FORM APPROVED - OMB NO. 0581-0055 EXPIRES: 12-31-96

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)

Green Genes, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

94GG

3. VARIETY NAME

Runner II

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*

37443 1st Ave. Ct.
Dennison, MN 55018

5. TELEPHONE *(Include area code)*

(507-645-5821

6. FAX *(Include area code)*

(507)-645-5821

7. PVPO NUMBER

9700070

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [XX] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company? If no, give name of country _____ [XX] YES [ ] NO

10. Is the applicant the original breeder? If no, please answer the following: [XX] YES [ ] NO

a. If original rights to variety were owned by individual(s): Is (are) the original breeder(s) a U.S. national(s)? If no, give name of country _____

[XX] YES [ ] NO

b. If original rights to variety were owned by a company: Is the original breeder(s) U.S. based company? If no, give name of country _____

11. Additional explantion on ownership *(If needed, use reverse for extra space):*

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.

2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.

3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.